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(54) ORTHOGONAL FREQUENCY DIVISION MULTIPLE SIGNAL TRANSMISSION SYSTEM, TRANSMITTING DEVICE AND RECEIVING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the occurrence of a code error by correcting the error of an amplitude character difference and a phase characteristic difference between an I-signal and a Q-signal.

SOLUTION: A transmission side transmits a known reference signal with a specified carrier among plural carriers constituting an OFDM signal, designates the carrier transmitting the known reference signal by a symbol number transmitted with the prescribed carrier, and sequentially changes and transmits them in a circle at every regular period. A reception side demodulates the reference signal in a decoding circuit 311 and a detection circuit 312 detects a transmission line characteristic. A first correction expression deviation holding circuit 313 calculates and stores a first correction expression from the detected transmission line characteristic. A first correction circuit 314 decodes the signals by using the correction expression. A second correction expression is newly calculated and corrected for the output signal of the correction circuit 314.

Thus, a high speed change characteristic can be corrected.

